

*Amt*  
obesity in both animals and humans. Diagnostic DNA sequences are presented so that DNA based tests for the presence of the obesity associated virus can be conducted.--

In the Claims:

Please cancel Claims 1-3 and insert therefor the following new Claims 4-7:

*Sub B1*  
*A3*  
2. A method for testing a subject for viral obesity comprising the steps of obtaining a sample of nucleic acids from the subject; and testing the sample of nucleic acids for the presence of nucleotide sequences selected from the group consisting of SEQ ID NO:2, SEQ ID NO:3 and SEQ ID NO:4.

5. A method for testing a subject for viral induced obesity comprising assay to determine if the subject is harboring any nucleic acids selected from the group consisting of SEQ ID NO:2, SEQ ID NO:3 AND SEQ ID NO:4.

*B6*  
3. An isolated DNA molecule having a sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:3 and SEQ ID NO:4.

*4.* 4. A peptide encoded by a DNA sequence of Claim *3*.